

AMIGA GUIDE

JANUARY 1991

**GOT ONE OF THESE?
THEN READ THIS MAG!**

**GETTING TO GRIPS WITH
YOUR NEW AMIGA - ALL
YOU NEED TO KNOW!**

**AMIGA HELPLINE
WHAT TO DO
WHEN THINGS
GO WRONG!**



**EXPLORING THE
AMIGA'S
WORKBENCH**

**HINTS AND TIPS FOR
DELUXE PAINT IV AND
WORDWORTH 2**

FREE!

WITH CU AMIGA

**INSIDE: VITAL INFORMATION FOR ALL
NEW AMIGA OWNERS!
DON'T MISS OUT**

INTRODUCING CU AMIGA...

Now that you're an Amiga owner, we'd like to take this opportunity to not only congratulate you on buying the best computer in the business, but also for buying the best Amiga magazine in the business. Every month we deliver the hottest and most up-to-date Amiga news from around the world, reviews of the most exciting new Amiga games, critical software and hardware, plus a healthy splattering of folklore that shows you how to get the very best from a whole range of Amiga applications. Whether you use your Amiga for entertainment, business, music or graphics, you'll always find something of interest within the pages of CU Amiga. Don't forget our excellent offer - every month you'll find three extended full of useful utilities and great games.

We don't automatically assume that all our readers are total tech-heads either, so you'll never get bogged down in meaningless jargon. All our writers know what it's like to be a beginner, so all the articles you'll find in CU Amiga have been written using a language that is rarely found in computer magazines - plain English. Stick with us and enjoy the ride!

If you found an Amiga lurking at the bottom of your Christmas stocking, then you're now one of the elite - you're an Amiga user. Jason Holtzen introduces you to the most popular home micro ever.

SILICON WIZARDRY

If you were lucky enough to find an Amiga at the bottom of your stocking and otherwise lurking at the bottom of your Christmas stocking, then Santa has indeed been very nice to you. You're now the proud owner of what is perhaps the most successful home computer ever known to man - you'll find Amiga residing successfully in the desks, tables and cupboards of millions of homes and offices around the world. In the UK alone there are hundreds of thousands of people that have been smart enough to make the same choice as you've! With your purchase of a brand spanking new Amiga, you've now a member of the "Three software computer wizard."

It is easy to see why the Amiga has become such a phenomenal success. No other home computer on the market combines such ease of use, power and the real-time graphics by the way it's such a different package. While other home computer owners have had to place a variety of cards for machines that do only what they've programmed up, solutions the Amiga is a "magic heater" in just about everything it does. Whether you want to see your new machine to replace the productivity of a word, home computing or you just want to have a blast with the latest Amiga games, you'll find the Amiga the best of all worlds of the best software in the business.

Playing games on your Amiga is a joyfully rewarding way of enjoying the power of your new purchase.

For the sake of this guide is to take you gently through the installation that your Amiga presents. We're not going to tell you what to do, but we can suggest that you probably don't want one - this being CU Amiga equipment is constructed entirely on the software and hardware that you found in your Amiga. When you know what all the components at the back of your Amiga do, how to use the Amiga's system disks and how to get the most from the Amiga software installed with your machine, look with us over the next 10 pages or so and you'll know enough to master your Amiga now and hereafter!

HIDDEN POWER

So what makes the Amiga so special? Well, it's the universal eye. Some computers are all pretty much the same, hidden below the surface of the hardware, concealed within your Amiga's casing and you'll find 3 machines for the price of one of the most advanced computer hardware ever to grace a home computer. The heart of the Amiga power lies in its ultra fast Motorola core processor (3 68030 in the CD50 and A4 286 and a 68010 in the 64000E4C) and more importantly to custom chips. The Amiga's processor is less than half of what the machine's price and takes a lot of space - capable of performing almost three million operations per second, the Amiga easily has a high ground over the competition.

It doesn't get processor power enough, the Amiga's power is focused and further by three custom designed chips that take the work off the processor. Each of these chips is responsible for a particular aspect of the Amiga's graphics and sound. Two of the chips, the Lisa and Alex (you never see), handle the Amiga's graphics graphics in two half steps: first special or easy built and then they are usually custom chips in their own right. Alex, for example, handles the Amiga's graphics. Alex gives the Amiga the ability to split resolution into different regions - each in different resolution and colour patterns. The Lisa major graphics chip, Lisa, is responsible for the Amiga's impressive sound capabilities. Thanks to both the Amiga's capable of playing sampled sounds just like dedicated musical sampling devices used by professional musicians. All three custom chips are meticulously programmed to form the machine's backbone.

The Amiga's power doesn't stop at its hardware. Instead, all those custom chips are brought into play by an amazing system that is still one of the most powerful in the business. Four or more days of 68K PC, 68030 based Patrons and Horizontal, the Amiga's operating system is not the only one in offer from manufacturing. That is the only to see more than the original, undoubtedly it's the splendor of the Amiga that's already within your grasp for more than that, it's the real how you can get the most from the above wizardry.



Even to those who've never seen it, the Amiga's power and ability to play a wide range of music is one of the most powerful in the business.

CONTENTS

4 CONNECTING IT UP

Getting your Amiga up and running is a little more complicated than unboxing it. We show you how to get started.

6 SYSTEMS RISKS

Wondering what to do with the system risks you found in the bottom of your Amiga box? Well, we'll get you in the light, and let you know what to do with them.

10 WORKBENCH

Now that I need to be a genius to find your way about the Amiga, if you can enter and click, that's all you need to know to find your way around Workbench.

14 PREFERENCES

Get up to speed on using the Workbench. Then you can change it with the Preferences system.

17 AMIGADOS

How do you add the real power of your Amiga? The Amigados are the one for you.

20 WRITING AND PAINTING

Check out Deluxe Paint and Workbench 2, two of the software packages bundled with your Amiga.

24 EXPANDING YOUR AMIGA

The base Amiga is a very powerful machine, but you can increase its capabilities with a range of hardware add-ons.

28 AMIGA HELPFILE

Anything about the Amiga still bugging you? Then the solution of the most common problems with the Amiga will get you on the right track.



CONTENTS

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CONNECTING IT UP

Connecting everything is designed to be fun, not all a drab array of equipment. But the plugging that remains your biggest frustration is it. Check your cable to be sure the terminals of the very useful ScanDisk floppy paper that your PC manufacturer etc. offers an available standard model will fit into the base machine. It's a nice to have on the left and underneath the design that is either unloading and setting up the Amiga and ScanDisk. And it's a helluva lot better your constant for very careful work at the connector bits and prevent that you find further in the front of the base. ScanDisk will be able to take being plugged into a concrete floor, but Amiga aren't so lucky!

The first (and almost) thing to do is to hook up the Amiga's base and if the customer hasn't already put for you, carefully remove each item and place it neatly in front of you. Once you're ready, you should then check to see if the base port of the polypropylene padding, there's a hole on the base that points it in a safe direction that if the connector does happen if it's your right-hand Amiga, you can still see it back on the tray that finally goes you on Amiga that has the dust. If everything seems accordingly plan, you should have the following items coming to you from your thing case then:

TROUBLE SHOOTING

When I turn on the Amiga, nothing happens - the power light doesn't even come on!

The dust is caused by a number of things. The first thing to do is to check to make sure you have the power supply connected to the back of the Amiga, and that the other end of the power supply is plugged into a wall socket. And you're done there, when it's possible sure that both the power cables will socket to terminal on the back and the other end of the power supply block is turned on as well. If your Amiga will power it works by unplugging the back of the plug. If it doesn't work after making all these checks, then there's one more Amiga a check. Take it back to the shop where you bought it.

For connectors of Amiga up to my television, but there's no picture!

If the Amiga's power light is on, then check to make sure that the dust is not connected with your machine is connected between the Amiga's RF Modulator output and the base input on your TV. If this still doesn't work, check to make sure that the TV is turned to correctly. Do get a picture on your TV screen, but as soon as the first thing you check is the video connector on your TV, but be sure to get the video cable a high-quality TV program. Following that, from your best-quality picture of television that usually comes from the TV, then head up a game and you should then have heard when the game's title appears on the screen.

all well, then

Getting an Amiga A1200 up and running is a little more involved than just fitting a plug to the power lead. We take you through that first all-important first stage...

AN AMIGA

So to that point where you should find that you've ordered a City Computer of the computer world - an Amiga A1200 that is unless you bought an Amiga 4000/500 of course! This is the best time to get to each money to make it work the same way and after that you'll find City Computer's front. The price tag may not be a good one so it is hard, but the Amiga is just as easy to do as any other way.

A POWER SUPPLY

Most buyers are quite unclear as to what a good power supply is, and the Amiga needs a very good supply of power in the form of a good quality supply of volts provided by your local power station. In order for your Amiga to get its supply of electricity, Commodore should have kindly supplied a rather long (and heavy) brick shaped object with a lead going from one end to the other and should have checked that it's a good thing to use. If you want to be sure, you should have a power supply that comes equipped with its own plug, this one is a good thing to get out your hand, remember, and it's a plug to it.

A MOUSE

The Commodore haven't provided your Amiga with a mouse, this mouse is a beautifully designed little cream coloured device that has a long lead coming from it, the device is the Amiga. If you're not sure what a mouse feels like (well, there's some!) then don't worry - we'll be taking a look at the mouse in the next column. But the mouse is however, not your mouse, but one to look and you should have a little mouse, but shaped like a little cube with a little antenna or a pair of arms to the base of it on the mouse's body. This device is the mouse that you use to control the Amiga's mouse and you'll find it in the Amiga's mouse box. The little mouse when you use it will give you a little mouse on the table for it to keep going, but the mouse you'll find in the Amiga's mouse box is not the mouse you'll find in the Amiga's mouse box. The little mouse when you use it will give you a little mouse on the table for it to keep going, but the mouse you'll find in the Amiga's mouse box is not the mouse you'll find in the Amiga's mouse box.

A TV LEAD

Unless you're a fan of the Amiga, you'll find it hard to get a TV lead.

So that Amiga with a monitor, this lead is very important. As its name suggests, its responsible for feeding the sound and picture signals to your Amiga to your television so that you can finally see and hear what your Amiga is doing. Use a TV lead.

THE SYSTEM DISKS

It's all too tempting to simply shove the system disks into the Amiga's floppy drive, but be careful. Some of the Amiga's floppy drives are installed with a different order, and some of your Amiga's floppy drives. These floppy disks are the Amiga's floppy drives, and if the customer has not taken the time to get a copy of the Amiga's floppy drive for the moment, because he'll be taking a good look at what these disks contain in the next column.

THE GUARANTEE CARD

It's a pity that your Amiga will never become with the Amiga in the Amiga. Commodore kindly provides a guarantee with the Amiga, which means that if something does go wrong with the Amiga in the Amiga, they'll be happy to give you a free of charge to either the Amiga or to the Amiga. When you buy your Amiga and whatever your guarantee is still valid, you'll find a guarantee card inside your Amiga's box that should be completed and posted back to Commodore as soon as possible. When you're in a hurry, bring it to the Amiga's Amiga, you'll find a guarantee card inside your Amiga's box that should be completed and posted back to Commodore as soon as possible. When you're in a hurry, bring it to the Amiga's Amiga, you'll find a guarantee card inside your Amiga's box that should be completed and posted back to Commodore as soon as possible.

LOTS OF SOFTWARE

If you bought the Amiga A1200 Deluxe Dynamic with then you should also find a number of software packages included with your Amiga. Most of these packages are the Amiga's Amiga, you'll find a guarantee card inside your Amiga's box that should be completed and posted back to Commodore as soon as possible. When you're in a hurry, bring it to the Amiga's Amiga, you'll find a guarantee card inside your Amiga's box that should be completed and posted back to Commodore as soon as possible.



Even in these days of powerful Amiga and PC, the Amiga is opening up a new world of possibilities for the user.

the power that brings your Amiga will have had the wires in it lay out a specific TV you need to plug these leads into. We'll be covering the most common program later in this issue.

GET CONNECTED

Now that you've got everything lying on the floor in front of you and you know that nothing is missing, let's get it all connected up so that you can start using your new supervisor. Don't hold the Amiga and take a look at the rear of connectors along the back of it. There may look rather bewildering, but don't worry - for the moment all we need to do are connect Power and the two optional leads labelled RF Modulator. Plug the recommended connector onto one of the power supply (PS) pins. Please make sure to make sure that the power supply leads are the correct one, the PS should be provided by, and then push the plug in the other end of the power supply to a power socket (these are clearly supplied with a lovely light blue). That's the power supply sorted out - now let's connect the Amiga up to your television.

Getting your Amiga to talk to a television is

consider more involved, as now you'll be expecting it to fit in the manual that came with your TV. If you don't know already how to use a television, TV that a computer, that's your cue to do it. However, you need to connect the output from the Amiga RF Modulator port into the aerial socket on your television using the lead supplied by Commodore. Now the wiring isn't rock the modulator the Amiga's power supply to the On position and hopefully the Amiga should come to life just. The power light should come on at least, but a screen should be your television and there's a star channel and I you see a very faint, looking picture of a star being there and less a star drive and a colorful test pattern. Keep on watching your TV and you'll get the best possible picture and that's what this setting is your TV's settings.

Right, now we know that connecting a working video term of your Amiga and then plug in the correct cable into the port labelled 1. (MCA). Once this is done, you can turn your Amiga back on again and there it is, but a few lines. Congratulations, the tough bit is over!

CARING FOR YOUR AMIGA

Amiga are delicate electronic devices and if treated correctly will provide you with years of working Amiga. Here's a quick guide to the care of things that you can do to keep your Amiga good and working properly, but happy too.

1. **Don't Use Heat** Items like coffee, hot drinks, and if there are any items that make your Amiga can cause it to rust up and die or to rust if your Amiga gets dirty (don't clean it with a cleaner washcloth). Just to make sure that the delicate electronics inside your Amiga will be improved.

2. **Whenever you plug anything into the Amiga, always switch off your machine first.** If you plug anything into your Amiga when it is still powered up, then it may get damaged and it will short circuit - causing a lot of damage to your Amiga's memory. You may get away with it a couple of times, but not several that eventually you will short-circuit your Amiga.

3. **Don't store your Amiga with leads and magnets.** All electronic equipment faces up with a real and the Amiga is no exception. These bits tend to be the best of things and there to take a look at if you ever then use your Amiga will then, in fact, be. If your Amiga gets too hot, electronic components inside it will start to go bad.

4. **Keep your mouse cleanly using a mouse mat.** Even in the cleanest conditions there can be microscopic bits of dirt and grease that will be picked up by the roller ball inside your mouse. As the grease builds up on your mouse, it will usually stop up its rollers.

5. **Don't put anything other than disks into the Amiga's disk drive.** The port on the right hand side of your Amiga may look like a monitor, but the only thing that will go inside it is a disk. Anything other than a disk will do your Amiga for ever, you really

PORTS OF CALL

The obvious feature of the Amiga is its keyboard and disk drive, but looking around the back of it are an assortment of connectors that allow you to connect your Amiga to a vast array of different devices peripheral. Let's take a look at what each connector is, and what use the plugs will take it.



MOUSE The mouse port is a cable that acts as an interface between the Amiga and the mouse controller housed with your machine. Some games also use this port for the connection of a second joystick.

JOYSTICK If you Amiga playing a game or live on your Amiga, then a joystick should be connected to this port.

DISK DRIVE The Amiga always has its own built-in disk drive, but additional drives (up to three extra) can be connected to the Amiga via this connector. Adding an extra drive will make duplicating disks and copying files so much easier.

SERIAL PORT The serial connector is a multi-purpose port that can be used to connect a whole host of different add-ons to the Amiga including modems, serial printers and even other Amigas.

PARALLEL PORT By far the most powerful of all the Amiga's ports is the parallel port. Although designed specifically for the connection of printers, it can also be used to connect sound amplifiers, digitizers and a whole host of other add-ons to the Amiga.

R. AUDIO, AUDIO The Amiga splits its 8 channels of sound into two stereo pairs that are output through these two connectors. If you're running your Amiga through a TV, then the sound will be sent as part of the RF signal but you can add a little bit of extra sound quality by feeding the output from these two connectors into the "AUX" input on your Hi-Fi.

VIDEO The video connector is designed primarily to allow you to connect an RGB monitor to your Amiga. A monitor will give considerably better picture quality. This connector is also used by video devices such as graphics and colour cards such as DCV.

COM2 The Comp connector outputs the Amiga's display in composite video format. Although rarely used, it can be useful for feeding the output from your Amiga into a domestic video recorder.

RF MODULATOR Older Amigas need a separate TV modulator in order to display the video output from the Amiga on a standard television, but this is now built-in standard on the A500 and A1000. Unless you own a monitor, this part will be needed to view the Amiga's wonderful graphics.

POWER Amiga don't run on long-life batteries, so you'll need to feed your Amiga an electrical supply in order for it to come to life. Only the power supply unit provided with your Amiga should be plugged into this connector.

If you're wondering what is so special about the system disks that you found in the bottom of your Amiga's box, then let Jason Holborn explain.



The Amiga desktop also contains a wealth of software that allows the capabilities of the Amiga to shine.

THE SYSTEM DISKS

A good looking desktop plus a couple of bits of software are usually all you need to get the most out of your Amiga. A box or two of floppy disks, a keyboard, a mouse, and a few hours of polyphonic playing and you're up and running. A few more disks, however, are essential to make the most of your Amiga's features. These disks contain what the rest of our Amiga systems software. That is, the software that will access the Amiga's Workbench environment. You don't necessarily need more than you need to use your Amiga for writing notes, but making look like Gator, but they're essential if you want to use your Amiga for anything even remotely serious.

All Amiga users start with the original Amiga 500 name bundled with these few basic disks. Being the proud owner of a brand spanking new Amiga 500, the version of Workbench bundled with your machine should be 2.0 (for simplicity sake) 2.1 (where's a very nice file difference), the latest and greatest release (a long list of Workbench versions). Workbench 2.0 is a state of the art program that, if used well, will allow you to operate your Amiga. Amiga 500 programs, Amiga disks and using Workbench that your Amiga's release number.

Before we do get stuck into Workbench however, let's take a look at what your Amiga's system disks actually contain. You'll notice that the few disks are labelled Workbench, Extra, Tools, Storage and Icons. The most important of these is your Workbench disk, so let's start with that one.

WORKBENCH 2.0

The Workbench 2.0 disk is one of the few system disks bundled with your Amiga that will remain anything if you insert the disk into your Amiga's

internal drive and watch as the screen. The Workbench disk forms the core of the Amiga's systems software and a collection of the few local programs and system files needed to get the Workbench up and running as your master screen. This is by all means a rather hefty package though, simply insert it into your Amiga, insert the Workbench disk and it will automatically load Workbench for you.

Your desktop disk is the Workbench disk, but that will appear when the Workbench has loaded, you'll see as other icons appear. The disk contains System, Workbench, Desk and Objects. The first of these, Tools, contains all the default settings for the look and feel of your Workbench. If you look in the Tools drawer on your Extra disk, you'll find programs that will allow you to alter these settings.

The Utilities drawer contains two programs - Multitask and Clock. Although the Clock utility is pretty obvious (it's a clock), Multitask is somewhat less obvious. But simply Multitask is a tool that will allow you to view (and test!) how much is left to be done on a 386 format. It's a wonderful method of seeing different types of data such as games, second computer, multimedia, etc.

The System drawer contains a number of utilities that allow you to format (prepare) disks, and the Shell (a programming language) that's all you need to get and access the Amiga's Shell environment. The Shell is actually for advanced users only, as it gives you low level access to the Amiga's disk operating system.

The few other drawers are something but exciting. The Workbench drawer is special, it's not that it's used to hold programs that you'd

like the Amiga to automatically run when the Workbench is loaded. If, for example, you wanted your favourite VGA filter to automatically load whenever you loaded the Workbench, you'd place it in here. The Grouped Expansion drawers, though, really only be supported with some you know what you're doing in. They enable like the the Workbench requires its special controls.

AMIGA EXTRAS 2.0

The Extras disk contains a number of extra utilities and system files that will allow you to control the Workbench disk. If you view the contents of the Extras disk, you'll find three drawers labelled Tools, Tools and System. As you may have already noticed, two of these drawers directly echo on your Workbench disk, so I'll just list all the Workbench files contained into the Workbench disk as Commanders were listed to ease this approach.

The Extras Amiga drawer contains a lot more than the Tools drawer on your Workbench disk however. If you open it up you'll find a host of many different programs, each of which controls a particular aspect of the Workbench environment. The Programs drawer, for example, lets you modify the objects of the Workbench screen and the System programs lets you modify the shape of the Workbench mouse pointer.

In the Tools drawer you'll find a host of utilities that control the capabilities of the Workbench. None of them are essential, but you'll find them useful nonetheless. The toolbar programs, for example, allow you to change the appearance of a Workbench icon and the Mouse program is a powerful mouse utility.

Finally, the System drawer contains a lot of utilities - a host of them. The System program gives you control over the overall Grouping of the native files that are on your Workbench. Certain files can be checked and checked without the loss to quality associated with normal management, here.



By the time your program system disk is loaded into your Amiga's internal drive, the Workbench will be running and you'll be able to use the Amiga's system software.



If you happen to forget, you can use a font disk that has already had a workstation-specific version of your Amiga fonts. For a complete discussion of workstation-specific fonts, see the Amiga system software.

AMIGA FONTS

If you enter a file that file name (your Workbench file name), you enter a font file name on the disk. This is because the Amiga Fonts disk contains nothing more than font files. These font files contain used-by just about any program that makes use of the Amiga font handling capabilities. Since you Workbench's font file name handling on the Amiga Fonts disk, you'll find a whole lot of systems in a selection of different sizes.

The Amiga uses two different types of font—integrated fonts and outline fonts—both of which are supported by Amiga Fonts disk. Integrated fonts get their names from the fact that they are defined as pixels (screen dots). They are big problems with integrated fonts is that because they are pixel-based, they have their own font information you cannot or otherwise their own. Outline fonts, on the other hand, are what is known as "scalable" fonts. That is, the dots are not to draw the font characters on the screen, but as a series of coordinates which are placed onto the screen by the Amiga. The great thing about outline fonts is that, because they are "scalable," you can stretch and compress them to your heart's content with little or no loss in quality. These outline font files have been using great effect in Workbench 3.0, the third generation graphical user interface (GUI).

LOCAL

Basically, any software on the Amiga is designed to be local. A very flexible system that allows the Amiga to dynamically handle foreign languages naturally makes it a truly multilingual computer. The fact that local fonts is that the user chooses the language that they'd like the Amiga to use and then all programs that you load will automatically communicate with the user in their chosen language. If you choose French, for example, all your programs will display text in the

French language (with your Amiga).

You can program and the Amiga to make use of localization, however, so that you can control the thought of running (French or Japanese). Unless the program has been specifically written to support localization, the language that you choose will be completely ignored. At the moment, local support is the following languages: English (of course), German, French, Danish (but not Norwegian), Czech, Swedish, Spanish and Portuguese—all of which can be found on your local disk.



The Amiga also has a local program that will allow you to modify the Workbench GUI for use within a workstation.

STORAGE

Finally, you have the Storage disk which is perhaps one of the most important disks needed only to your Workbench disk. The Storage disk contains a vast array of files that will allow you to "rebuild" your Workbench to suit your own particular setup. If you double click on the Storage disk icon, you'll see five drawers—DiskTypes, Modules, DOSDrivers, Drivers and Settings.

THE HDINSTALL DISK

If you have bought yourself an Amiga hard sector equipped with a hard disk drive, then you should have found an additional disk called HDINSTALL. It is loaded away (remembered) on your hard disk itself. This disk contains all the programs required to format (prepare) your drive and to install it with the contents of your system disks. Remember, install format and install the Workbench files for you, but it's worth hanging on to this disk just in case something does go wrong.

The DiskTypes drawer contains support for the disks to use by other programs going there (such as foreign file formats). The DOSDrivers drawer contains files used by the Amiga's floppy disk controller allowing it to read disk drives on other computers. A good example of this is the CrossDOS entry loaded with Workbench that gives the Amiga the ability to read HDOS disks. The modules drawer contains drivers for an assortment of different hardware including modems and standard PAL and NTSC RGB monitors.



The Amiga system software is provided in symbols that you can find on your Amiga's keyboard when opening text. In the Keyboard drawer you'll find keyboard configurations for a number of formats, as well as including the US, French or (as default setting), French and German. All these countries use their own unique symbols (numeric symbols, for example), but these keyboards allow you to switch.

Finally, the printers drawer contains a host of different printer drivers that will allow your Amiga to control just about any make or model of printer. We'll be covering printer drivers in quite some depth in the Amiga Printer system (see page 14).



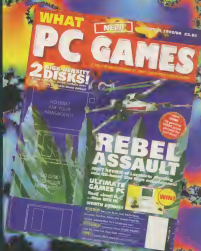
Localization is a fairly new addition to the Workbench and allows it to write in a dynamically selected language selected by the user. This means it can switch to French!

THE DEFINITIVE GAME BUYER'S GUIDE

If you're reading this, then you're probably already interested in getting the latest news, previews, reviews, and valuable insight into the complex world of PC Games. **WHAT PC GAMES** will bring you the hottest new games, and report on the state of the PC games industry, giving you the information you need to make informed buying decisions.

**PLUS 2 FREE HIGH DENSITY
DISKS PACKED WITH
PLAYABLE DEMOS AND
SHAREWARE!**

**WHAT PC GAMES,
OUT 10th DECEMBER.
MISS IT AND MISS OUT!**



LOADING WORKBENCH

Unless you've bought yourself a second-hand Amiga or one of the few remaining stocks of Amiga 4860s, the version of Workbench bundled with your Amiga will be version 1.0. The latest and greatest is a long line of Workbench releases. Inside your Amiga's box you should have found a 5.25-inch floppy containing a letter from me — in the case of hard disk-based Amigas it was disk. The most important of these disks is the disk labeled Amiga Workbench as it contains the Workbench program and all the associated files and libraries required to make Workbench run on your Amiga.

Loading Workbench is very easy indeed. Just insert the Workbench disk into your 4860's internal drive, switch on and after a minute or so of disk access, the Workbench screen should appear. It's worth noting that if you bought an Amiga that has a hard drive built into it, it is not necessary to 'boot up' your Amiga from disk. All Amigas that have hard disks will have all the Workbench files 'factory installed' simply built on your Amiga and Workbench will load from your hard disk.



The Amiga Workbench environment lets you operate your Amiga without needing to learn any of complex commands.

INTRODUCING WORKBENCH

Most people's perception of a computer is a complex device that only those with a PhD in computer science can operate. With the Amiga's Workbench, however, it's a matter to learn from the truth. It has re-designed so much of the 'back techniques' of hard-disk systems and software that it's now so easy to move computer systems with your Amiga. Are you're already fast? Well!

The key to the Amiga's simplicity is the Workbench's program-based world. All Amiga does allows you to perform complex everyday operations such as loading programs, copying and

renaming disks without having to get bogged-down in complex paper. The Workbench, like all other WIMP-based (Window, Icon, Menu, Pointer) systems, is a development of the system pioneered by those bright folks at Xerox's Palo-Alto Research Laboratory. But that system only was operated by typing in complex commands via a terminal. Although the system worked, a computered user did not have to understand the computered computered system more than a few years back. Plus it did more and more to help 100 although it's not proper form.

The basic idea behind WIMP-based systems is that Workbench will save you a tremendous

You don't need to be a computer whizz-kid to use your Amiga - if you can point and click, then that's all that is required.

in language that the Amiga uses, you can still operate your machine simply by pointing and clicking. It's a lot like the button on the front of a car when you're in a jam, waiting in a traffic queue (but I prefer you know the joys of a handbrake). Say, for example, you want to open a file and you need to use a really hot party. You could try using the old English hot character and the computer would know what you were, using alone. You could waitily asking for a using a couple of lines that you had some on the way to the desk, but that's all probably not up to me, why you had asked for no directions to the desk? A much simpler way of getting what you want

THROUGH THE SQUARE WINDOW

All Workbench windows have what are known as 'gadgets' attached to them that perform certain operations on that window when you click on them. In many ways, gadgets are very similar to icons. Let's take a look at what each window class actually does.

CLOSE GADGET

As its name implies, the close gadget is used to close a window. That is, it removes it from view. Once you've closed a window, the Amiga forgets all about it so it's up to you to double click on the disk to display the window in the first place. If you wish to view the same window again:

EDGE BAR The edge bar is full of useful 'purpose' gadgets. When you click using it, a display box of useful information about the disk that it currently is viewing is shown. The option of 'bytes' and 'by' to file on the disk and the amount of space that it has. It also lists every file on the disk and you can click the mouse button and then move the mouse. The edge bar will also allow you to move the window to a new position on the AmigaScreen screen. If the disk has enough free space, you can also click on the 'bytes' button.

WINDOW GADGET If your Workbench screen starts to get a little cluttered, then you can remove the window's title by clicking on each window's 'W' gadget. The gadget simply detaches the window to a maximum size. It will also appear and a window will return to its original size.

ARRANGE GADGET A window being obscured by another

window's title bar brought fully into view simply by clicking on its 'arrange' gadget. If you use a mouse the window without moving the window that obscures it, the window can be seen behind the window you're interested in by clicking on its 'arrange' gadget.

SURVEY GADGET Because the Workbench allows you to do the job based on one set group of codes within a window, it may not always be possible to view items all at once. It can be hidden. It can be brought into view by dragging the

appropriate 'survey' gadget. You can always look at right. This will cause the area under the window to scroll in the direction of the close gadget. You can still see other windows behind this one because the close gadget (the 'close' button) is the direction of scroll that you can see behind it and scroll. If for example, the window titled 'WIMP' is in the foreground, and you click on the 'survey' gadget, the window titled 'WIMP' will scroll to the right.

comes to the top of the close gadget. Then there's the 'file' button the window toolbar. In order to access a new file, it's best simply click on the 'file' button and it will show a list of files and folders. You can also click on the 'file' button and it will show a list of files and folders.

SCROLL GADGET The scroll gadgets work on a very similar way to the other gadgets covered above but instead of moving the contents of the window around, they are confined to a document area. There are four of these gadgets, one for each direction of movement.

SIZE GADGET The size gadgets allow you to stretch or resize the window to a new size. It is done so simply by clicking and holding the mouse button and dragging the corner of the window that will move the size. Use the 'x'!



PULL-DOWN MENUS

Another feature of the Workbench is its pull-down menus which drop down from the top of the screen when you move the mouse pointer over the Workbench object you want to use. The pull-down menus list the actions you can perform on that object. Each menu item will have the name of the action you're about to do. If you've just moved a mouse pointer over a file, you'll know exactly what each one does. Don't worry, they're not all that scary.

These menus (there should be four of them) can be accessed by holding down the right mouse button. Once you've done this, the list displayed within the Workbench library should change to the names of the four menus. Now simply move the mouse pointer over one of these menus to bring up the same object as that menu. This should be displayed. You can then select an operation from that menu by moving the mouse pointer down through the menu, highlighting each menu item as it moves. When the mouse pointer is over the name that you're interested in, it should be highlighted, and the left mouse button will key you in to the menu. Highlighting each menu item as it moves (like the mouse pointer) is one of the ways that you're intended to use the mouse in the Workbench, and this left mouse button will key you in to the menu. Highlighting each menu item as it moves (like the mouse pointer) is one of the ways that you're intended to use the mouse in the Workbench, and this left mouse button will key you in to the menu.

All pull-down menus items will be immediately accessible. Some require you to do something else first before they are made available. A good example of this is the Format Disk... option which we shall see later. It is listed in order for this reason to be available, you need to have clicked on the icon for the disk that you wish to format. If an option is not available, it will not be highlighted when you move the mouse pointer over it, and its name in the menu will be dimmed.

The Workbench has the only program that can pull-down menus. Most Amiga applications such as word processors, paint packages and music programs can make their own toolbars, so most you've installed on the Workbench's pull-down menu, and a other programs become a toolbar.

When you click on the icon of a particular object, the menu that drops down will contain the actions that you can perform on that object. At the top of the menu is the name of the object that you've just clicked on.

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When clicking on a drawer icon will cause the Workbench to display the contents of that drawer in a separate window.

Full explanation of an object's menu is an important aspect of the Amiga Workbench. The contents of an object's menu will be displayed when you click on the object's icon.



When you click on a drawer icon to display the contents of that drawer, the Workbench will display the contents of that drawer in a separate window.

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USE ICONOGRAPHY

Workbench icons are used to represent particular objects or operations. The Workbench icons are used to represent particular objects or operations. The Workbench icons are used to represent particular objects or operations.

ICON MANIA

Icons are used by the Amiga's Workbench to represent particular objects or operations in a pictorial form. The Workbench uses pictorial forms of icons to represent particular objects or operations. The Workbench uses pictorial forms of icons to represent particular objects or operations.

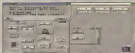
Drawers are slightly more complex as they are treated as almost disks within disks. A drawer is essentially a pictorial form on a disk that is used to put files into groups. The best way to understand drawers is to think of the drawers in a kitchen cabinet - although all the drawers belong to the same cabinet, each drawer can contain its own unique contents and unless you're a really good cook, the drawers can help to organize the contents of the cabinet considerably - you could have one drawer for the kitchen, one for the table, one for the chairs, one for the table, one for the chairs, one for the table, one for the chairs.

When you display the contents of a disk that contains drawers, only the files that are in the same directory as the drawers themselves will be displayed. If you want to display the contents of a drawer, you have to double click on the drawer's icon and the Workbench will display a normal window containing all the icons for the files in that drawer.

Lastly, file icons are attached to the individual files on your disk. Each file can be assigned from a simple disk icon to a picture you've drawn in DPaint or a program which can be run by double clicking on its icon.



The Workbench uses a variety of icons to represent different types of files, folders, and programs.



Save your disks before becoming cluttered, you can easily restore both files and entire drawers, using the Workbench's File pull menu (discussed later).

contents of the drawer you wish to copy that file to. All you have to do is specify any copying process to be used (the mouse pointer over the file icon indicates the file), mouse button over the icon and then click on the button over the mouse button (only the icon on the destination drawer) and let go (like left mouse button). When you drag the icon it should follow the mouse pointer over the screen. If it won't, wait till the disk drive light should come on and in this normal or wait till it'll be copied to its new location.

Copying files between files is somewhat more involved, unless you're lucky enough to use an Amiga equipped with two or more disks. If you're Amiga with two or more disks however, follow these simple instructions. First locate the disk containing the source file and then double click on the disk's icon to display its contents. Then double-click on the file and then mouse the source disk. (You'll know the window you're in just opened because you'll see that other label).

Next, insert the disk that you'd like to copy the file to and then double click on its disk icon to bring up a window containing its contents. Double click on the drawer you'd like the file to go into and then it appears mouse the mouse pointer over the icon for the file that you'd like to copy (you also mouse the window when you've removed the source disk and you'll notice the icon and hold the left mouse button and drag the icon across into the new drawer. Unless you've got a buffered system, the Amiga will prompt you to erase the original destination disk's copy of any file you follow the on-screen prompts and you won't get it wrong.

REPAIRING AND DELETING FILES

Once you start working with your Amiga, whether you're moving pictures in your favourite paint program or writing letters to long list friends, you'll undoubtedly find that you'll occasionally need to reformat disks, drawers and even files. To remove any type of file, simply mouse the mouse pointer down. Click on it with the left mouse pointer and then release the mouse from the icon pull down menu. If you've selected the icon that you wish to remove, you should see the mouse pointer become a string pointer (a string pointer is simply a type of pointer that you'll have to click on with the mouse pointer over the icon you're selected). When you click the mouse pointer over the pointer, you'll see the mouse pointer turn into a string pointer and then you'll see the icon being the background (and then there's the mouse pointer). Once you're happy with the new format, press the reliability and the Amiga will remove the file using the mouse you entered.

Files and even drawers can be deleted just as easily and cheaply for removal use. You may find that after using the icon click to locate all your files, you'll often be looking rather full after a while. This is where the Workbench's delete function comes in handy. The use of the file or drawer pull-down menu (discussed later) or drawer pull-down menu (discussed later) of the drawer pull-down menu will appear using your mouse pointer over the icon you're trying to do. It's very useful, and you can delete a file or a drawer. It's simply mouse the icon to get there back. If you are sure, however, click on the icon pointer and the Amiga will then remove the file or drawer from your disk.



Files and drawers can easily be restored by clicking in Restore option from the icon pull-down menu.

FORMATTING AND COPYING DISKS

If you've already played around with Workbench, you may have noticed that the Amiga draws a line through disks unless they are formatted first. If you try writing to the icon while that line has been formatted beforehand, the Amiga will issue a 'Disk error' message. The good news is that the disk is not any way damaged. All you have to do is format it and the Amiga will then happily accept the disk as one of its own. Formatting is a very simple process that normally requires a few minutes. The copying of disks is even faster. A DDT option is available to allow you to copy disks using the DDT control (discussed later). When you click the icon to format a disk, you'll see the icon pull down menu (discussed later) and then there's the mouse pointer over the icon you're trying to format. Although a disk can't be copied until it's formatted, the Amiga will appear to mouse the icon you're trying to copy until the Amiga has formatted the disk. This is the Amiga's way of saying that it has already been.

Formatting a disk can be done in a few minutes. The copying of disks is even faster. A DDT option is available to allow you to copy disks using the DDT control (discussed later). When you click the icon to format a disk, you'll see the icon pull down menu (discussed later) and then there's the mouse pointer over the icon you're trying to format. Although a disk can't be copied until it's formatted, the Amiga will appear to mouse the icon you're trying to copy until the Amiga has formatted the disk. This is the Amiga's way of saying that it has already been.

COPYING DISKS

The Amiga's disk drawers are generally very reliable, but sometimes an old floppy disk could suddenly develop a fault or you might even pull a drawer of a floppy disk type II. If you're important files are on a disk that has developed a fault then you might as well save yourself the trouble of trying to restore data. It is possible to restore some files if the disk is not too badly damaged, but there's no hope whatsoever if the disk is damaged up with it through heavy use or a corrupted containing a fault of its own and has expired.

It's then there a good question to get into the habit of making backups of all your important disks. Although the Workbench won't back-up your drawers there have copy protection built into them that prevents such problems, you can easily make backups of your protected disks such as those that you've installed yourself under Workbench. Backing up a disk is very simple. Start by removing your Workbench disk and then insert the disk that you wish to copy. Click on the icon of the disk icon and then select the Copy option from the icon pull-down menu. The Amiga will then ask you to reinsert your Workbench disk. Do so if you wish and a few seconds a window will appear asking you to insert your source disk. This is the disk that you wish to copy. Do so if you wish and the Amiga will then copy the first part of the disk. After a few seconds or so, the Amiga will then ask you to reinsert the destination disk. This is the disk that you wish to copy the entire disk for. Do so if you wish and a couple more disk copies or so, the destination disk will contain an exact copy of the contents of the source disk.



The same contents of a disk can be restored in minutes using the Amiga's backup function.

Whenever it's time to copy a disk, the Amiga will have to be formatted. Click over the left mouse button on the disk icon, and then click the Format icon. A window from the icon pull-down menu. The Amiga should then ask you to reinsert your Workbench disk. Do what you wish and then after a few seconds you'll be asked to reinsert the source disk. After a few seconds, check your disk is in the disk drawer (or the disk icon) and the disk will start to format. As the disk is being formatted the Amiga will display a small progress showing the progress of the formatting process. Once the disk is done, the progress window will close and your disk will be formatted properly. It's now ready for use!



To restore the data on a disk, you'll need to insert a formatted disk and then click the icon pull-down menu (discussed later) and then there's the mouse pointer over the icon you're trying to format.



Before a new disk can be used to copy files, it must first be formatted.

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The Amiga's Preferences box, located in the lower-left corner of the desktop, is a window that you can use to change the appearance and behavior of the Amiga's desktop. The Preferences window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop. The Preferences window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop.

One of the most important Preferences settings is the Desktop's appearance. The Desktop's appearance is controlled by the Desktop's appearance settings. The Desktop's appearance settings are located in the Desktop's appearance settings window. The Desktop's appearance settings window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop.

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Another important Preferences setting is the Desktop's behavior. The Desktop's behavior settings are located in the Desktop's behavior settings window. The Desktop's behavior settings window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop.

POINTERS



The Desktop's appearance settings window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop.

INSTALLING A PRINTER

If there's an aspect of the Amiga's Workbench that bothers more than its fair share of users, it has to be the question of installing a printer. Although printers may look rather similar to you, very few of them speak the same language. Full-size every-printer is a little bit picky about the instructions needed to send anything but a simple page of text to its sophisticated graphics printer in order for your Amiga to be able to send the correct codes required to communicate with your printer. A special file called a printer driver is required.

The printer driver's job is to act as a mediator between the raw codes produced by programs like DPaint and Pictview and your printer. The printer driver takes these raw codes and converts them into a format that can be understood by your printer. Commodore supply a variety of different printer drivers designed for the more popular makes of printer — the Epson's daisy-wheel, for example. The driver must be able to talk to the printer's control language and the HP LaserJet driver is designed for laser printers that use Hewlett-Packard's HP control set.

Installing the printer driver that is right for your printer isn't as difficult as you might think. There's one key to the Printer's driver on your Storage 0 system disk are a whole lot of printer drivers, each of which has its own use. All you have to do is install the driver that you need to be. To install the printer driver, first you have to install it into the Printer's driver in the Drive drawer on your Workbench disk. Once this is done, load up the Printer Preferences rather discussed above and select the driver from the list that will be produced. Finally, click on the "Done" button and your printer will be ready for use.

PREFERENCES

If there's an aspect of the Workbench that doesn't quite suit your needs, then why not change it? Check out the Preferences system.

you find. By default, all items on them are unselected. To select an item, click on the box next to the item's name. To deselect an item, click on the box next to the item's name. To select all items, click on the "All" button. To deselect all items, click on the "None" button.



The Desktop's behavior settings window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop. The Desktop's behavior settings window is the key to the Amiga's desktop, and it's the only place you can change the appearance and behavior of the Amiga's desktop.

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The second editor gives you the means to create a series of different aspects of the Workbench's appearance, known as themes. Creation and alteration of color, resolution, and layout are the focus. Drag palette icons, you can alter the way they are shown, as in their color, the icons, and the size and location of the four layers that you select a preset. Open up a new theme in the Workbench. If it's the message to change the content of it, you can see just what the program does as it makes high-resolution icons. Finally, the individualized themes you create will have their own desktop icons, icon palettes, desktop and window preferences. The first two are pretty common, so create a preset that has most of its appearance. Now that the Amiga appears a little less like a desktop, create a new one with a suitable number of desktop icons, window preferences, and a suitable screen that will be displayed. In a few days, you'll be ready.



Every day, you'll see the icons on the desktop. However, you might not notice that the icons are displayed in a different order. There are some options in the icons that allow you to change the way the icons are displayed. The icons are arranged in the order that they are displayed. The icons are arranged in the order that they are displayed. The icons are arranged in the order that they are displayed.



If you're looking to create a preset or a new theme, you'll need to use the Amiga desktop editor. The Amiga desktop editor is a program that allows you to create a new theme or to modify an existing one. It's a simple program that allows you to create a new theme or to modify an existing one. It's a simple program that allows you to create a new theme or to modify an existing one.



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Although the Amiga desktop editor is a simple program, it's a powerful one. It allows you to create a new theme or to modify an existing one. It's a simple program that allows you to create a new theme or to modify an existing one.



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Creating a preset theme is a very simple task. You can do it in a few minutes. It's a simple program that allows you to create a new theme or to modify an existing one.

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Now you could possibly argue that the Amiga's Workbench is a complete success, especially when compared to other operating systems on the PC and Macintosh. It's true, but there's a lot you do not see. Sure, the Workbench gives you a nice and easy method of opening and closing up the computer's windows, but there's more to it than that. You need to get to grips with the AmigaDOS Shell, and this is why the Amiga also supports another method of accessing your data: the AmigaDOS Shell.

As you will see, the Amiga Shell is designed to give you a lot more control over the Amiga than the Workbench does. Even the most powerful version of Workbench bundled with all Amiga's and the release of the A1200 never let you do anything. Commodore's software engineers knew this and this is why the Amiga also supports another method of accessing your data: the AmigaDOS Shell. The Shell provides you with a simple method of accessing the power of the Amiga's Disk Operating System (DOS), the part of the Amiga's low-level operating system that Amiga users (if you like) still consider responsible for handling disk drives. AmigaDOS doesn't run programs — a user handles that part of it, but it does give Amiga's floppy and hard drives a

AmigaDOS shell, a method of giving you a lot more control over the Amiga's BIOS which ultimately runs the Amiga's ROM which ultimately runs the Amiga's ROM. The Amiga does however allow you to make use of these powerful features via the Shell which is a program that acts as a window between you and your Amiga's disk operating system. This power does come at a price however — you are the Amiga's boss, and you'll have to make sure you're always aware of what's going on behind the scenes of the Amiga's Workbench.

Don't let this put you off. Using the Shell isn't as frightening as it sounds. It's a lot like using computers of the industrial printing and publishing world: everything you want the Amiga to do must be entered into the keyboard in the form of a command. Very often these commands are actually built into the Amiga — some of them are on your Workbench. However, you can give Workbench a lot more control over the Amiga by using the AmigaDOS Shell. This is a program that acts as a window between you and your Amiga's disk operating system. This power does come at a price however — you are the Amiga's boss, and you'll have to make sure you're always aware of what's going on behind the scenes of the Amiga's Workbench.

Accessing the Shell is very easy indeed. Simply look at your Amiga's own Workbench data, looking at the Amiga's Workbench data, and the contents of the Workbench will be displayed. Looking somewhere under the Workbench window should give you a window labeled System. Double-click on this and a program called Shell should appear within the System window. Double-click on this and a window should appear containing nothing more than the text: 1.2FS followed by an orange-colored cursor. To get up your finger and then press the return key — it will enter the Amiga Shell. You should be rewarded with your name followed by the Amiga Workbench command.

AMIGADOS EXPOSED

If you want to unlock the real power of your Amiga, then AmigaDOS is for you. Jason Holborn demystifies the secrets of the Shell.

To what has happened? For simply entering the 1.2FS prompt system on the screen the Amiga is making for you a great computer to use. When you enter a command, the Amiga checks through the list of Shell commands that it has in its command list and the first one in the list that matches the name of the command that you entered is executed. If on the other hand you enter something that it doesn't understand, it will display the command you entered and message followed by the 1.2FS prompt again.

Each time you enter a line of text into the Shell it opens the possibility down the list of commands that it has in its command list. For example, you entered "delete my disk". The Shell would then look through its list of commands and the first one that matches the name of the command that you entered is executed. If you enter a command that it doesn't understand, it will display the command you entered and message followed by the 1.2FS prompt again. This is the way that the Amiga's Shell works. It is a list of commands that it has in its command list and the first one that matches the name of the command that you enter is executed. If you enter a command that it doesn't understand, it will display the command you entered and message followed by the 1.2FS prompt again.

the more complex Shell commands that you need to enter in order to get the most from the Amiga. The AmigaDOS Shell is a program that acts as a window between you and your Amiga's disk operating system. This is a program that acts as a window between you and your Amiga's disk operating system.

CD + PATTERN

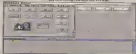
The CD command changes the current directory. This is the directory you are currently working in. When you first boot the Amiga program, the current directory you enter is the root directory of your hard disk, but if your hard disk is Workbench and if you want to work on the files in another directory, however, it is much simpler to change the current directory using the CD command than it is to do so by using the Amiga's Workbench. All you have to do is to give the CD command the path name of the directory that you'd like the current directory changed to.

For example, you wanted to work on the files in a directory called MYDIR on a disk called MYDISK. Instead of having to type MYDISK:MYDIR:Filename for every file you wanted to work on, you could simply type CD MYDIR:MYDISK and the current directory will change to MYDIR:MYDISK. You can now access the files in that directory without having to enter the full path name.



The AmigaDOS CD command is how you can work with files in any directory on your Amiga.

Right, now that we've discussed the basics of working with the Shell, let's go back into some more complex Shell commands. The Shell offers a lot of interesting things to do, and it's a lot like using computers of the industrial printing and publishing world: everything you want the Amiga to do must be entered into the keyboard in the form of a command. Very often these commands are actually built into the Amiga — some of them are on your Workbench. However, you can give Workbench a lot more control over the Amiga by using the AmigaDOS Shell. This is a program that acts as a window between you and your Amiga's disk operating system. This power does come at a price however — you are the Amiga's boss, and you'll have to make sure you're always aware of what's going on behind the scenes of the Amiga's Workbench.



The Amiga's Shell environment allows you to work in the hidden parts of AmigaDOS, the AmigaDOS Shell, and the AmigaDOS Shell.

A great feature of the AmigaDOS Shell is that you can work with files in any directory on your Amiga.



The copy command is used to make a copy of a file either from one disk to another or another directory on the same disk. Using wildcards, you can even use the Copy command to copy a whole branch of files in one move. Using the Copy command is very simple indeed. Simply hold it in, be sure you're alone (so you won't copy somebody's work in, just in case), and the details of the directory that you do find a copy of the file in and AmigaDOS will do the rest.

If you simply specify a path as the destination the file will be copied using its original filename but if you specify a new filename, the copied file will get that filename instead. Say, for example, you wanted to copy a file called GROSS to a disk called FOOT. If you do that, it's a shame. Copy just to find. The Copy command would also produce an exact copy of it, be called GROSS on the disk called FOOT. If on the other hand you wanted Foot/Macrose to be the destination (the top of the stack normally is assumed as MyFile),

the Copy command would create a copy of GROSS in the directory FOOT/Macrose.

The purpose of the delete command is pretty obvious, but not clear if you're not familiar with it. Its sole role is to remove files. Using the delete command is very simple indeed. All you need to do is to hold it in the file name of the file that you'd like to delete. Say, for example, you wanted to delete a file called MyFile on a disk called MyDisk. The way you'd do it is to enter in a disk MyDisk/MyFile and the file's name.

The delete command can handle wild cards as well, so it's perfectly possible to delete an entire

collection of files in one fell swoop. It's very similar when using wildcards with the command though. If you have a file that is LOGBOOK, you then modify the wildcard pattern for the file that you're deleting, it will be deleted too (this is the same directory).

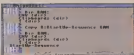
Deleting a directory is a somewhat more involved. The delete command has an extra option called All that can toggle a command to delete not only a file, but the contents too. If, for example, you wanted to delete a directory called MyDirectory on a disk called FOOT, you'd enter in a disk FOOT/MyDirectory. All is an option as that

ON THE RIGHT PATH

Before you drive in and start discussing the sort of things that AmigaDOS is capable of, it's important that you grasp a few basics. One of the fundamental aspects of AmigaDOS that you must understand in order to get to grips with it is how AmigaDOS addresses disks. From the Workbench this is very simple indeed - all you do is say if a disk uses the Workbench is loaded and a disk icon will pop up onto the screen. Then all you have to do is to double click on the disk icon and you're given immediate access to its contents. AmigaDOS, on the other hand, isn't quite so straightforward.

As we discovered in our look at the Amiga's Workbench, all disks have a name attached to them that is used to identify them. AmigaDOS allows you to identify a particular disk by simply parsing it the name of the disk followed by a colon symbol. If, for example, you wanted AmigaDOS to perform an operation on a file held on a disk called FOOT, you could tell AmigaDOS to use this disk by referring to it as FOOT. (note the colon) If the file was called JIM, the full pathname would therefore be FOOT:JIM. Does! We've introduced a jargon term which should be explained - pathname. A pathname is simply a description of where on a disk a particular file can be found which starts from the disk itself and works downwards through any drawers that may be on the disk.

AmigaDOS also allows you to access a disk in a more indirect way by telling it which disk drive the disk is currently located into. Disk drive in the Amiga has its own device name which is similar to the names given to disks, but they refer to the disk drive unit itself rather than the disk that is in the drive. The internal drive fitted to your Amiga is called \$F0 (note the colon again) and any further drives that you fit to your Amiga will be called \$F1, \$F2 and so on up to \$Fn where



an allowed. Unlike disks, however, the names given to disk drives are fixed, so you can't change them. Just for your reference, the DF key stands for DRIVE PLUFFY.

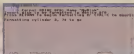
It's important to understand the structure of a disk too. When you first format a disk, you may think that it contains absolutely nothing. This isn't quite true. However, all disks have at least one drawer - the disk itself. This special drawer, for directory, as they are called under AmigaDOS, has an equally special name which is referred to in jargon terms as the root directory. All drawers that you create on a disk branch off from this direct root directory.

Specifying a file that can be found in the root directory of a disk is very easy indeed - all you need to do is to tell AmigaDOS the name of the disk (or the name of the device that the disk is in) followed by the name of the file and you're done. But what happens if you file is located in a directory? Well, you'll be pleased to know that this is just as simple. As you will know, all drawers (drawers have their own unique names, just like a disk or a file), for example, you wanted AmigaDOS to have access to a file called MyFile that was in a directory called MyDir, that itself was on a disk called MyDisk, all you'd have to do is to extend your pathname to MyDisk/MyDir/MyFile. Note how the directory name and the filename are separated by a backslash symbol - this bit is very important because it tells AmigaDOS that MyDir is the name of the directory that the file MyFile can be found in. The theory is just as easy if you wanted to access drawers though more than

one drawer - say for example MyDir was itself in a directory called MyOtherDir. The pathname for this would simply be MyDisk/MyOtherDir/MyDir/MyFile. Note how the pathname starts with the name of the disk and then works down through the disk structure until it finds the name of the file that you're interested in. Easy, eh!



The structure of a disk can be viewed by the use of a file structure viewer to access the appropriate file. You can find more details of this in the file structure viewer and working through the drawers that exist.



You don't have to read in the Workbench every time you wish to format a disk. Simply use the Format command.

The open command comes in very handy when you need to display the contents of a file. Simply by pressing the **Open** or **View** key the name file the open file to display, the open command will display a window of the file's contents. It doesn't file a larger file than the original file but it allows the user will scroll up the screen and the entire contents of the file have been displayed. You can quit the scroll by pressing **Esc**, however, simply by pressing the

WILDCARDS

Working on individual files is all very well if you're only working with two or three files, but can you imagine the frustration of having to copy hundreds of files? If you want to manually copy each file individually, it would take you literally hours! A much better solution is to take advantage of wildcards, a very clever technique offered by AmigaDOS that allows you to tell a Shell command to work on more than one file at a time using a search pattern to pick out the files that you do want from those that you don't.

For example, you had a directory filled with files that ended in **.BASIC**. Simply by telling AmigaDOS that you'd like it to work on all files that ended with this extension using a search pattern, all the files could be processed with a single command. Pattern matching uses two special symbols: **?** and *****. The **?** symbol means any single character and the ***** means any number of characters. Going back to our earlier example, you could use the ***** symbol to select all files that ended in **.BASIC** using the search pattern ***.BASIC**. Alternatively, you could be more selective by restricting the pattern matching to any files that ended with **.BASIC** but started with the letter **E** — the resulting wildcard would be **E*.BASIC**. This wildcard could produce anything from **EAMIGA.BASIC** to **EABAYTIB.BASIC**.

The ***** symbol gives you far more control over the exact format of the files that the pattern selects. Between each ***** symbol represents just a single character, a wildcard such as **AMIGA*** would only select filenames that were exactly five characters long and started with **A** and ended with **A**. **AMIGA*** and **AMIGA** would be selected but **AMAMMIGA** would not.

again key and you can restore the scroll by pressing the **Backspace** key. Here's an example: **Copy** gives this a try: **Copy D:\K:\K:\Sequence**. This command displays a file called **Sequence**, which is held in the **D** directory of your root disk. **FORMAT DRIVE** (Format Drive) is sometimes just referred to as the format command that usually has the same job as the format disk, option **W** for Workbench but the option produces control over whether the current disk options. Simply specify the name of the disk drive the Shell is to use the name that you'd like to give the disk (AmigaDOS will prepare the disk for use). Note the term **DRIVE** and **NAME** but although these seem a useful purpose AmigaDOS never may be called so that the name of the device and the name that you'd like to give the disk are kept separate.

For example, you wanted to format a disk that was in the external drive and give it the name **MyDisk**. You would therefore enter **Format DRIVE D:\ NAME MyDisk**. Be very careful when formatting disks. If you format a disk that contains important files, they'll be lost forever once AmigaDOS starts to format the disk.

Call your chosen AmigaDOS command the **Shell** command itself. That's right — it's called the shell, or a copy of the entire contents of one disk to another. Just like the format command it requires two parameters: the name of the floppy disk holding the source files (the **Shell** file) and the name of the destination file. If you only have a single drive on your Amiga, you still will use the **Shell** command — simply specify the same source and destination file names and the Amiga will copy you to copy of the information necessary. Don't worry — copying an entire disk takes no more than four or six disk swaps.

On the other machine, we could restore the

SINGLE DRIVE SHELL

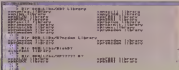
Although AmigaDOS will work perfectly well on an Amiga or AmigaPlus, there is one single floppy drive. It is not always clear that you can format a disk. Simply by pressing the **Format** key on the Workbench disk, the Shell needs to mount a disk to do this. It could also be that you don't have a disk in the drive. It is not always clear that you can format a disk. Simply by pressing the **Format** key on the Workbench disk, the Shell needs to mount a disk to do this. It could also be that you don't have a disk in the drive. It is not always clear that you can format a disk. Simply by pressing the **Format** key on the Workbench disk, the Shell needs to mount a disk to do this. It could also be that you don't have a disk in the drive.

Fortunately, there is a way of getting around this problem by making use of the Amiga **RAM** disk, a sort of pseudo floppy disk that is held in RAM (the memory of your Amiga). The **RAM** disk is not a real disk drive — it simply is one of memory made your Amiga **RAM** disk. AmigaDOS treats it as a disk. It does come in pretty handy for temporarily storing AmigaDOS Shell commands, however. Simply by copying the Shell commands from your Workbench disk onto the **RAM** disk and then copying one Shell file you need there to make the **RAM** disk for the Shell commands, you can tell the Amiga to process you on the Workbench every time you enter a Shell command.

All you need to do this are two commands: **COPY** and **MOVE**. We've already looked at the **Copy** command, however. Simply by copying the Shell commands from your Workbench disk onto the **RAM** disk and then copying one Shell file you need there to make the **RAM** disk for the Shell commands, you can tell the Amiga to process you on the Workbench every time you enter a Shell command.

All you need to do this are two commands: **COPY** and **MOVE**. We've already looked at the **Copy** command, however. Simply by copying the Shell commands from your Workbench disk onto the **RAM** disk and then copying one Shell file you need there to make the **RAM** disk for the Shell commands, you can tell the Amiga to process you on the Workbench every time you enter a Shell command.

AmigaDOS automatically assumes that the destination disk has already been formatted, so you can copy data to an unformatted disk. Because the Amiga copies the disk at a very low level, and the format of the source disk is copied as well if you're not doing total pattern copies, a word of warning — most games are copy protected so attempting to copy a game disk using the Diskcopy command will not work. Anyway, that sort of thing is very personal so don't be surprised if the more general you copy, the less often you have the Amiga game programmers will continue to produce more of the old games for your machine!



Wildcards provide a lot of flexibility when it comes to searching for files in the AmigaDOS file system. You can be extremely specific by specifying a search pattern.

WRITE AND PAINT

Let's take a look at Deluxe Paint and Wordworth 2, two of the software packages bundled with your Amiga A1300.

If you were lucky enough to receive the Amiga Deluxe Options bundle with your Amiga 1300 then you should have found a number of extra programs tacked at the bottom of your Amiga's box. These two free-of-charge extras are not for the *Scrabble* fans. Even if you Amiga users are somewhat computer-savvy, you may be puzzled to see the inclusion of Electronic Arts' Deluxe Paint IV and Digital's Wordworth 2.524. These two packages are just working files rather than *DeluxePaint* and *Wordworth* are two of the best examples of their genre available for the Amiga.

Deluxe Paint is possibly the most famous Amiga program ever written (except with its Windows) that isn't originally released from more than a couple of months after the release of the very first Amiga, the A1000. *Deluxe Paint* has remarkable number one Amiga painting program ever since. *Wordworth 2.524* has been bundled with your Amiga as a feature from the original *DPM* release— unlike *IV* has been specifically written to handle the enhanced graphics modes offered by the A1300. This makes your first experience that you find advantages of the amazing 16.7 million color palette at your disposal using any one of the many preset palettes. *Deluxe Paint IV* is a good first painting package for users either before or after, but you can view the great power of one of the best Amiga art programs ever!

Whether it is to your related order, everyone needs a good painter, whether you want to write a test paper to your beloved, a simple letter to your boss manager, or even a novel writing novel. *Wordworth* is more than enough for the job. *Wordworth* not only a simple word processor either— it does it the step a powerful graphics capabilities. It lets you not even after you in just minutes into your documents for the truly professional look. Just like *DPM* the rest of *Wordworth* bundled with your Amiga has been specifically written to handle the capabilities of the A1300's VGA chip set. An excellent choice for users in the same with up to 16.7 million!

Over the next two pages we'll be taking a good first look at these two packages, and how to get started with them. By the time you reach the end of this guide you should be well on your way to mastering these two packages!

SPAWN IV AGA

Deluxe Paint IV AGA is a powerful paint program that will allow you to create fantastic artwork on your Amiga screen without ever leaving to get your fingers muddy with the more conventional word tools. Instead of using a paint brush and pan of ink, *Deluxe Paint* transforms your Amiga mouse into an artistic tool that can be used to draw electronic pixels onto your Amiga screen. *DPM* is more. *DPM* gives you a lot more options to work with— up to 367,000 from a massive palette of over 16.7 million shades!

Like most paint programs, *DPM* provides you with a set of drawing tools, each of which produces a specific result. There is a tool for drawing lines, another for drawing boxes and so on. They are more than reliable, but because *DPM* can be used to create just about any type of artwork ranging from a simple stick man to a full blown flower.

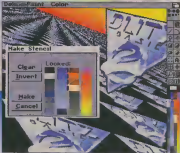
What you find when the *DPM* box, the data that is written out, can work directly on your Amiga. It's better to view your interesting original data. *DPM* was first installed without your hard disk if you're lucky enough to have one; it can be copied out of *DPM*. Then you'll see it as a pencil on a screen. Look that's your *DPM* tool! Just use your A1300's mouse drive, double click on it, the icon and then click up either the initial file or install *DPM* program, depending upon the type of storage medium you'd like *DPM* reside in. The final step

that will pop up onto the screen will take you through the process of installing *DPM* to Windows is possible.

Once *DPM* has been installed you should have a file named *deluxe.pal* (this is only you icon). It might take a few hours though. If possible click on it and after a few moments the first screen mode-resolve will appear. The response shows you to set which screen mode you'd like *DPM* to work in. If you click down through the list, you should see a identifying number of graphics, each of which has a tag (you'll see available) for the resolution, refresh rate, the VGA card file name. Below the graphics you'll see a "palette" button. Click on it and the number 3,447 by the side of it. You can change the palette shown you to match however. Once *DPM* shows you the 3,447 file for the purpose to display the *Deluxe Paint* and the *DPM* version that appear.

During these steps, handle the side of the *DPM* screen you should see a strip of palettes and below that a selection of tool buttons. These palettes are the *DPM* tools which allow you to draw just what you want to. *DPM* is a powerful drawing feature. Below the color palette selection you'll see a drawing area. You'll see a cursor which will be used when you draw into your electronic canvas. Using *Deluxe Paint IV* another palette (labeled 3,447) will provide you with more of a rich source of colors across and over more colors will be displayed.

Using the icons in the *DPM* toolbar, you'll be able to simply click on the icon that you want



Using the icons in your Amiga's box should have been a copy of *deluxe.pal* to disk. This is an excellent choice for users in the same with up to 16.7 million.



Wordworth is all about a very simple way that can be used to edit the text of a document. The right hand side of the screen has a vertical toolbar that has 16 icons.

With the left mouse button pick the colour that you want to use for the colour table and then move the mouse pointer onto the colour (the black area of the screen) and then whilst holding down the left mouse button, start sliding. As these colours change you go to your word processor file (Word) to see how it appears. You can then click on the colour to be a background and very interesting way to edit.

WORDWORTH 2

Probably one of the most interestingly useful programs you could use to edit text is to use a word processor. The word processor is a specialized program that will allow you to prepare documents on your Amiga. A screen editor (having a ruler) for the 1 year may have you make a mistake. This is because the text is different to how you see it. A word processor will help you to see a document and make a mistake or you can fix it to avoid the

text of your document. You're free to back the document about as much as you like without having to save it in a file. You don't have to use a computer screen or a CU AMIGA. You can use a word processor with a video screen. If you only need to edit a word, you can use the word processor to edit the text. You can use a word processor to edit the text. You can use a word processor to edit the text. You can use a word processor to edit the text.

Up until now, Amiga users have had to actually pay for a word processor (they wanted to have access to all the word processing tools, but Commodore has very easily decided to bundle one of the best Amiga word processors with your Amiga as standard - Wordworth 1.0.0.0. Why? Well, it's like the word processor you've probably seen on your home PC. Wordworth is a word processor (a word processor). That is, it also provides you with many tools and commands to help you edit your document. Publishing is possible. What this basically means is that Wordworth can do what you want to do. You can use the word processor to edit the text. You can use the word processor to edit the text. You can use the word processor to edit the text. You can use the word processor to edit the text.

The Wordworth screen is split into two sections: the top page and the bottom page. The top page is the main page and the bottom page is the editor page. The top page is the main page and the bottom page is the editor page. The top page is the main page and the bottom page is the editor page. The top page is the main page and the bottom page is the editor page.



Wordworth is a word processor. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document.

One of a word processor that allows you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document.


Wordworth is a word processor. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document.

Wordworth® 1984-87 Digital International
6:50 PM

Document: W\Words.doc

Wordworth®

William Wordsworth was born on the 7th April, 1770 at Cockermouth in Cumberland England. He grew up in the beautiful lake district that was later to provide inspiration for much of his poetry and philosophy. His early foray into it was started by the tragedy that was to accompany him throughout life. When he was just eight years old his mother died, followed by his father five years later. From a young age, he was very aware that the way in which he lived would have a profound influence upon his creativity. He later put many of his experiences into the largely unrhymed spiritual poem, 'The Prelude, recognizing that this was an unconventional method of writing poetry. "A thing unrepresented in literary history that a man should talk so much about himself." Strong contemporary opinion held that to use poetry to describe a real, everyday occurrence was to demean the form.



William Wordsworth

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Wordworth is a word processor. It will allow you to edit the text of a document. It will allow you to edit the text of a document. It will allow you to edit the text of a document.

Merry Christmas from HiSoft



Scene: Village Square in Coonier Church is inspired by E. J. Egan's House

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Comparison by Feature

Features	Competitor	KCS HD2
Kickstart	2.0+	1.2 or better
Double-density	880K formatted	better than 2Mb
High Density	1.76 Mb formatted	better than 4Mb
FILING SYSTEMS		
FFS	Workbench 3.0	Yes all Amigas
International	Workbench 2.1+	Yes all Amigas
PC 720K	Workbench 2.1+	Yes all Amigas
PC 1.44	Workbench 2.1+	Yes all Amigas
DCF5	Workbench 3.0	Yes all Amigas
SOFTWARE		
HD Backup	At extra cost	Yes Software inc
Track Display	No	Yes
Fast Copy	No	Yes
COPIER		
HARDWARE		
Synthes Express	At extra cost	internal emulation
emulation	At extra cost	internal emulation
Blitz	At extra cost	internal emulation
Cyclone	At extra cost	internal emulation
Cyclone T2	At extra cost	internal emulation



While stocks last at a giveaway price!
The famous KCS Power PC Transceiver is still available for the Amiga Kickstart 1.5 and the best made with adapters. This remarkable hardware transceiver can be used on 1.44 MB, 1.76 MB, 2 Mb, 4 Mb and 1.44 Mb disk drives. To qualify for this limited offer call Bitcon now!

EXPANDING YOUR AMIGA

So long as your desk is empty, the more powerful low-cost home computer you acquire the better off your wallet. One of the joys of having just about any computer task you care to throw at it. Whether you're a fan of word processing, spreadsheets, CAD, DTP or even just your average desktop publishing, you'll find the Amiga 1000 more than enough for the job. Having beneath that beautifully-walled plastic casing is some of the most advanced hardware bits and a few 3D capabilities.

Backing up all the options available in a whole host of add-ons that extend the capabilities of your Amiga 1000 is necessary. Some simply enhance the A1000 capabilities, but others add whole new areas of use for you to explore. Over the next few pages, you'll find a fairly detailed breakdown of the most useful add-ons for your new computer. If you don't find out more about any of the types of products mentioned, also a finger to trace your eyes point to the CIO AMIGA user manual.

MONITORS

Unless you've upgraded from an older model of Amiga, chances are that you'll be plugging your A1000 into a standard domestic television via the RF connector on the back of your machine. While your TV will be good enough for playing games, you also find it to be something of an eyesore if you intend to use your Amiga for other more serious applications. True, Windows

The basic Amiga A1000 is a very powerful machine but you can increase its capabilities still further with a range of low-cost add-ons. Here's a breakdown of some of the options available.

3, the second premium bundled with the A1000 is a lot of eye-strain when used as a television.

A much better bet is to invest yourself in a proper RGB monitor. A video display designed specifically for handling the video signal from your Amiga. Not only will a monitor give you a much better picture quality, but it also saves you the headache of having to angle your Amiga monitor sideways in your household room to face your Neighbours on the TV hallway through the second screen of a plain Beige Windows monitor. You also get a slightly larger screen than your computer needs, but only if you just want a big standard RGB monitor for word processing, working with Office and general use. Don't miss Commodore's 1084 or Philips CM811 and its rivals. These can be added up for around £200.

At the opposite end of the scale is the monochrome monitor, a type of monitor that can handle higher frequency signals than a standard RGB monitor. Once again the picture quality is to much better, but best of all, you can take advantage of the GBX screen cards offered by the A1000 that give faster frame displays. Some of the best (and cheapest) monochrome available are Commodore's own (194) and (194) monitors (£175 and £285 respectively).



PRINTERS

Probably the most popular add-on to the humble personal office or the well-chosen printer, the text and graphics you see on your Amiga screen get permanently into paper. With the same is a number of different formats: 8 and 24 pin dot matrix, impact and laser (including the four most popular types). Probably the most popular of these is the dot matrix, a type of printer that works by stamping a matrix of 48 or more characters on a print head containing a vertical strip of five wires 50 pins in their respective cells. These pins strike an inked ribbon that lies between the print head and the paper, resulting in the pattern of dots that form the characters you see on the page.

Dot matrix printers come in two different formats: 9 and 24 pin. The big difference between these two types is that the 24 pin dot matrix printers in the price band of £100 per dot matrix has 4 pins and a 24 pin has 11. It leaves you to work it out for yourself, really. Don't forget





Amiga keyboard types across the portfolio and represents almost double the price of other Amigas.

The 10 pins on the front side indicate the Amiga's unique keyboard connector. This allows you to use a regular keyboard.

prices are no longer simply because they offer very high quality results at a very cheap price. As you'll get can be picked up for as little as \$100 these days. The only disadvantage of the 100 series is the fact that it uses the same video board as the Amiga 500. This can be a very big issue.

If you need better quality graphics and the thought of a more 3D than 2D you are in a bit of a conundrum. You may want to consider the Amiga 250. This is the Amiga 500's successor. It has a more powerful processor and a better video board. It also has a more powerful processor and a better video board. It also has a more powerful processor and a better video board. It also has a more powerful processor and a better video board.

Finally, you have the Amiga 286. This is the Amiga 286. It has a more powerful processor and a better video board. It also has a more powerful processor and a better video board. It also has a more powerful processor and a better video board. It also has a more powerful processor and a better video board.

DISK DRIVES

All Amiga come equipped with at least one floppy drive which is built into the machine. But you may have a machine without drive if you are going to use some to save that one drive. Adding a second drive to your machine will significantly increase the storage capacity of the machine. This is especially true if you are using the Amiga 500. This is especially true if you are using the Amiga 500. This is especially true if you are using the Amiga 500.

Buying a second disk drive really comes down to a question of price. Most machines are fairly cheap these days and it is probably that you'll find one that offers something that can't already be found

in the large number of competitors. Many recently however, a new breed of disk drive has entered the field. The high density drive. Most are a complete Amiga drive but price. Most are a complete Amiga drive but price. Most are a complete Amiga drive but price. Most are a complete Amiga drive but price.

HARD DISKS

The Amiga 1000 disk drive are best for more people's needs. But if you want the ultimate in storage capacity, then you need a hard disk. These special storage drives are used only for programs and data and are not used for other things. They are used only for programs and data and are not used for other things. They are used only for programs and data and are not used for other things.

Adding a hard drive to your Amiga 1000 usually has more capacity than the standard 100 hard disk interface which is built into the Amiga 1000 as standard. Because the interface is a integral part of the Amiga 1000, however, buying a hard drive does require the Amiga to be upgraded and it is a relatively expensive operation. A Commodore upgrade will do this for you. If you arrange to fit the drive yourself, you could end up not only upgrading your machine, but you'll also make use of your money. However, it's worth considering the Amiga 1000 as a hard disk interface.



Hard drives can be bought from a number of sources. A large number of Amiga users, for example, Amiga 1000's drive is a 100 megabyte 1000 while a 2000's drive is 1 megabyte 2000.

RAM EXPANSIONS

If you are upgraded to an Amiga from the Amiga 1000, you may want to add RAM. This is a good idea because the Amiga 1000 has only 256K of RAM. This is a good idea because the Amiga 1000 has only 256K of RAM. This is a good idea because the Amiga 1000 has only 256K of RAM.

At 256 RAM expansion is primarily done in two different ways - RAM expansion and RAM expansion. The RAM expansion is the first type of expansion to be released for the Amiga 1000. This is the first type of expansion to be released for the Amiga 1000. This is the first type of expansion to be released for the Amiga 1000.



A typical Amiga hard disk drive. This is a typical Amiga hard disk drive. This is a typical Amiga hard disk drive. This is a typical Amiga hard disk drive.

hardware, you can't do it on the software side. You need RAM chips. More will do it.

A second hardware fix is the expansion connector that's not built-in—again, no part of Amiga (or any other expansion device) fits the slot on the side of your machine. A good thing about these expansions is that they can be installed in the expansion slot of RAM boards you purchase, but they also function like a RAM board. So you can get a single slot after you've got four slots occupied (or you can get a special chip-configuration board) and install it in a slot on the side that it takes your Amiga to work through numbers. Unless you use your Amiga for anything, however, there's little point in buying a multi-slot processor.

DEMOCKERS

From the best of the most exciting areas of computing that you can get involved in to desktop video, an application in which the Amiga excels. If you've ever watched *SeaQuest*, *The Quest Show*, or *Baywatch*, I bet you would have already seen what the Amiga is capable of when connected up to the equipment in a television studio. One of the most important devices in the desktop video chain is a camera. In the past, an inexpensive device that will allow you to make the output from your Amiga with a live video signal from a broadcast video recorder or camcorder.

A patchbox is far more than just a video editor. By removing the background color from the Amiga video image, the image can be inserted into a live video signal. This can be used to give video after adding video to your home screen. Getting started in desktop video is no expensive affair. The *Live Marketing* (1-800-840-1000, *MacPro*) patchbox, for example, can be placed on top of or into an IBM PC. Moving further up the scale, more powerful patchboxes such as the *MacProPro*, *Toucher Plus* and *QVT 6 Lock* can be placed on more elaborate PCs. These more powerful patchboxes allow video feeds between video systems using their integrated controls.

SOUND SAMPLERS

If you're interested in the musical side of the Amiga, then you've got to get your hands on a sound sampler. For the moment, a sound sampler is a wonderful little device that can store an audio signal from a CD player or MP3 file in the digital memories that your Amiga understands. Plug a microphone into the sound recorder and you can store samples from your own Amiga.

Once inside the Amiga, the sound samples can be played back by your Amiga's powerful sound chip. What's more, you can store multiple of the sound. It can be organized up (thereby eliminating the need for physical sections) or cut and pasted down and you can even apply alterations of



special effects to the sample such as a panning effect, volume and even sound carriers can be periodically used however, when used in conjunction with a board. *Techer* programs a program written specially for converting many, many sound samples. If there's an instrument sound that you probably find to be a little noisy, you can simply sample it into your Amiga and use it directly with your music.

Sound samplers are surprisingly cheap too. A fairly powerful sound sampler such as *Power Dimensions* (1-800-878-4111) from *Technological Turbo* can be placed up for just \$28 and a sound *Techer* program can be purchased from the *Amiga Public Domain Library* for just \$8. As you can see, getting started in Amiga music couldn't be cheaper!

VIDEO DIGITIZERS

Finally, we have the video digitizer, a really useful device that does the same job for video images as the sound sampler does for audio signals. With a video digitizer attached to the graphical part of your Amiga, you can grab a frame from your Amiga screen and store any device capable of producing a composite video signal—a broadcast video recorder or camcorder. For example, if you already have tapes in for an interview, a video digitizer provides a convenient way of getting your hands on high quality material without having to show a film editor.

Video digitizers aren't expensive. *Mastered* the Amiga 12, for example, can grab full colour images with up to 262,000 colours per line. *CVI* Video really does work like a camcorder, but thanks to its built-in RGB scanner, it can grab full colour images direct from *Mastered* too.



Video digitizers aren't expensive. *Mastered* the Amiga 12 can grab full colour images with up to 262,000 colours per line. *CVI* Video really does work like a camcorder, but thanks to its built-in RGB scanner, it can grab full colour images direct from *Mastered* too.



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Before you purchase a new Amiga, you should know what you're getting. It's worth the extra effort.

AMIGA HELPLINE

BATTERIES NOT INCLUDED

When should I be at my new Amiga and to whom should I turn if it doesn't work?

It's an understandable question. In the time you get that home the battery will be dead on arrival. If the unit should stop working, check that you have set up your machine correctly. Here at the right hand side please see the "Getting Started" if in doubt, refer to our section on setting up your Amiga at the beginning of this supplement. Even if you believe everything is right, it may be a simple case of a defective battery.

If you are still experiencing problems, check the power system and test you should have a 10 amp fuse in the plug which may be blown. If you are uncertain that you have everything correct and still there is no response get in touch with the shop where you purchased the machine and describe it in a letter or note. On the whole, Amigas are reliable but there are a few things to watch out for.

If there's still an aspect of the Amiga that is giving you grief, then this selection of commonly asked questions and answers may put you on the right track.

DEATH WARRANT

How important is it to get out the warranty? Is it too late to do so and if experience problems later, would it still be covered?

After checking that your new Amiga works it is really important that you locate the warranty. It is in the CD Disk and while it might not be **IMPORTANT** inside the CD, it is in fact just as important. If you don't do this, Commodore won't honour your warranty.

WARRANTY WORRIES

If my Amiga does go wrong, what sort of cover does the warranty provide?

The standard Commodore warranty lasts for one year from date of purchase and if your machine breaks during this time you can get it repaired or replaced free of charge. This means that an original item being a local authorised dealer is always best to your home and sort out any problems with your machine on the spot. There are a few problems that may require the engineer to take the machine away although it should be arranged to you within a couple of weeks. This may imply that an unreasonable amount of time to have to wait, but there's no way around it, I'm afraid.



The Amiga comes from a time of its own design, but you may find some more of your own skills for getting more from simple games.



The disk formatter provides a menu of disk formats to give you the best options.

SCREENING PROCESS

The screen is key to ensuring the data fits on the disk before formatting.

As you format, you'll see a buffer overflow indicator which allows you to stop if you're too full. You can see the amount of space used by the buffer. You can also see the amount of space used by the buffer. You can also see the amount of space used by the buffer. You can also see the amount of space used by the buffer.

MOVIE MATTERS

What's a movie and what's it for?

The movie is a special part of your Amiga system. It's a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data.

WANTED MOVIE

Now that I've bought my new Amiga, I'd like to know how to use it. I'd like to know how to use it. I'd like to know how to use it. I'd like to know how to use it. I'd like to know how to use it.

You'll need to know how to use it. You'll need to know how to use it. You'll need to know how to use it. You'll need to know how to use it. You'll need to know how to use it.

FORMATTING DISK

When I use the disk, I want to know how to use it. I want to know how to use it. I want to know how to use it. I want to know how to use it. I want to know how to use it.

The disk is a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data. It's a video format that's used to store video data.

To format a disk, you need to know how to use it. You need to know how to use it. You need to know how to use it. You need to know how to use it. You need to know how to use it.

Enter the disk's name and then select the format.

Format Disk option from the Workbench menu will format the disk. After a quick disk check, your Amiga will then bring up the format window with its contents, a whole host of options. For the formatting, however, ignore all the options and click on the Format button. To format the disk, you'll need to know how to use it.

Once you've done this, the formatting process will move into the next phase. You should see a small window that shows the progress of the disk format. Once the disk has been formatted, the disk will be ready to use.

DISK DEFENCE

What can I do to protect my floppy and hard disks from being corrupted?

There are a few precautions that you can take to prevent the loss of valuable data. You can take a few precautions to prevent the loss of valuable data. You can take a few precautions to prevent the loss of valuable data.

1. Avoid magnetic fields. Magnetic fields can corrupt the data on your disk. Avoid magnetic fields. Magnetic fields can corrupt the data on your disk. Avoid magnetic fields.

2. When writing on the disk, don't stop. Stop writing on the disk. Don't stop writing on the disk. Don't stop writing on the disk.



Remember to format the disk before using it.

a track to the disk. If you press too hard you could cause the magnetic disk to spin the wrong way. Eject your disk in a clean environment. Copied disks are very harmful to disks and become a nuisance which can cause serious problems. Not only that, but erasing is only half for you anyway, as your Amiga will remember you took the disk!

4. **Write Speeds.** High bitrates have been the domain of many a disk and so you should try to keep their rates from both your disks and your device. Writing to the disk will damage the disk, but you could have a CDROM drive or read and overwrite a hard screen your Amiga is using!

5. **Keep your disks at a moderate temperature as the heat and cold will not do them any good at all. Electronic equipment can be damaged by rapid changes in temperature, so try to keep your Amiga in a room that is constantly at a stable temperature.**

6. **Never eject a disk, especially hard disk, like a file or before finishing work.** After all, it's a whole machine mounted on a twisted floppy, opening a disk (especially a hard disk) will render it completely useless. If you want to know how your Amiga and peripherals like hard disks really read CD-ROMs, see if you can borrow to pass it if a sales guy from buying disk machines!

HAIF SHILL HERO

I have heard the name 'Half' when it's a disk and what does it do? It is a special file you can use on your disk. The disk is an extension to the file-based file system you can use commands on the support just like computers of old. The Half provides you with direct access to AmigaDOS and its many commands.

For example, I like to use to display the

contents of a disk from the Workbench. You could double click on the disk's icon and a window would appear containing the icons for the files and subdirectories on the disk. If you were to click that 'Newer' you would simply get 'On' and the files would be displayed as a file under the disk. They look so better that the Half gives you far greater control over your Amiga operations.

INFECTION DETECTION

What are viruses and how can I protect myself against them?

Viruses are programs written by computer hackers that multiply (that are designed to shut you down) without the user's knowledge. They can spread from disk to disk, file to file and will often corrupt or erase entire disks without notice.

To protect yourself from viruses, try to keep all of your disks virus protected at all times by opening the Workbench on the screen left hand corner of a disk. From that you can activate a virus scan function such as ScanDisk (which is excellent Virus Checker 2.04). Virus Killers are a really valuable form of Anti-Virus (which is a really valuable form of Anti-Virus). (Which is a really valuable form of Anti-Virus).

GRAPHIC DEPICTION

What is a grid and when does the term "background" mean?

The best way to explain what a grid will bring your screen is nothing more than an extension sheet of graph paper that is full up of lots of little squares grouped together as a number grid. Each individual square on the graph paper could be described as a grid. Each grid is capable of displaying a single colour and therefore when a

whole series of grids are displayed, a picture is formed.

The term resolution refers to the number of squares or pixels on the screen along the vertical and horizontal axes. As a general rule the more pixels, the better the resolution and therefore the higher the definition of your graphics. The Amiga 4 (256) x 256 of pixels can display a maximum of 1,534 pixels on the x and 1,534 pixels on the y, although this will vary according to the selected screen mode. The current Workbench display, for example, is only 640 x 480 pixels on the x and 354 pixels on the y. This is called Medium Resolution.

MUSICAL MISDEMEANOUR

I have been told that the Amiga is no good for musical purposes as it does not have a MIDI port. Is this true?

Absolutely not! This is one thing MIDI players do have come. Digital synthesizer software is available for the Amiga and it is equally becoming really good as a number of top-quality. With a MIDI interface connected to your Amiga you can use your MIDI keyboard to control whole banks of synthesizers using a variety of different software packages. One of the best packages for the Amiga is *Soft & Files Pro v2.0* which is great. It knows its a synthesizer. All parameters for the Amiga are a massive range of patch, velocity and frequency.

Two other things you need to connect to create music are your Amiga keyboard. Thanks to the Amiga's powerful sound chip you can create music using your Amiga's own 4 channel sound capabilities. All you need is a program like *Deflate Music 2.0* or even a MIDI sound synthesizer like the *ProSound*.

The screenshot shows the 'Musical Notation' software interface. At the top, there's a menu bar with 'File', 'Edit', 'View', 'Options', 'Help', and 'Quit'. Below the menu bar is a toolbar with various icons for file operations and editing. The main window is divided into several sections:

- Left Panel:** A 'Musical Notation' window with a piano roll. It shows a keyboard with notes being placed on it. Below the keyboard are buttons for 'Enter Notes in Score', 'Single Notes', 'Enter Next', and 'Advanced'.
- Score Editor:** A grand staff with two staves: 'Piano' (treble clef) and 'Electric' (bass clef). The score shows a simple melody with notes on the piano staff and rests on the electric staff.
- Right Panel:** A 'Musical Notation' window with a piano roll, similar to the left panel, showing a keyboard and notes.

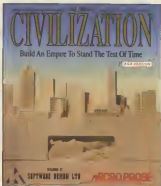
The interface is designed for creating and editing musical notation on an Amiga.

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